





# To the Class of 1952:

This is a memorable day for you, and it is equally so for Purdue University, since this is our one hundredth Commencement day. Such a milestone invites reflection. Would the graduates of Purdue's first Commencement exercises, or those of the fiftieth, feel at home here today? Would you, in turn, feel at ease if you could somehow be moved backward through time and become a member of one of those early graduating classes?

You would doubtless find the Commencement exercises themselves to be quite similar to those of today, but would you be the same? There would be fewer of you—far fewer, and you might feel more satisfied with your own competence, more confident of your future in a society and a world of stability and relative certainty—or so it seems to us now.

It only seems so. In those days of the walrus mustache and high button shoes, the graduating student felt the usual anxiety about his future—a job, a home, a successful career. Prices were rising, and there were recurrent waves of unemployment. The country was alarmed by strange epidemics. Rival political parties blamed each other for all the ills of the times. Passions were inflamed, and families were disrupted by such issues as Free Silver, the teaching of evolution, the proposal to establish an income tax, and the prohibition amendment. And every June, college seniors attended Commencement and were told that they were the hope of the future.

No cynicism is intended here, nor disillusionment. Our hope is indeed in the young, and without them there would be no future. The graduates of yesterday, and those before them, gave their best that we might sit here today and look toward the future. Our first duty is to justify the work and the hope and the faith of our fathers.

Whether we think of this day as something new and unique or as something a hundred times old, it matters not, for the spirit is the same, and it is the spirit of youth. It was so even in medieval times, when the young Baccalaureus in his cap and gown was formally and publicly pronounced to have attained an adequate "degree" of learning to qualify him for independent activity and eventual leadership. The ceremony was therefore the beginning of his career—his Commencement.

The faculty and officers of Purdue University congratulate you upon your degree and your Commencement. We are here to honor you today. The pomp and pageantry of these Commencement exercises are the symbol of our pride and faith in you—faith that you will be able to solve some of the problems which still baffle us. From ninety-nine Commencement exercises, Purdue graduates have gone forth and brought credit upon themselves and their alma mater. We have complete confidence in you—the Century Class of Purdue University.

Frederick L. Hovde, President

As an expression of his regard for his alma mater, Mr. Bruce Rogers, Class of 1890, designed the University's diploma in 1932 so that Purdue graduates would have a distinctive symbol of their attainment. Mr. Rogers is the foremost book designer of the twentieth century. He is recognized for such achievements as the two lectern Bibles: the earlier one designed at the Oxford University Press in 1935, and the other completed in 1949. Mr. Rogers' artistry in both the type face and form for many fine limited editions has influenced design in the average trade editions. Purdue University is proud to present this diploma to its graduates.

A reception for the graduates, their relatives, and friends, will be held in the lower lobby of the Hall of Music immediately following each division of the exercises.

The University requests that members of the audience refrain from taking pictures in the Hall of Music. One or two pictures will be taken by the University photographer for use in the official University records.

In deference to other guests and to the radio audience, persons with small children are asked to take them out of the auditorium if they should start to disturb.

# ORDER OF EXERCISES

First Division—9:00 a.m., CST (10:00 a.m., DST)
Second Division—1:30 p.m., CST (2:30 p.m., DST)
PROCESSIONAL—"Pomp and Circumstance" March No. 4. Elga The Purdue Symphonic Band Paul S. Emrick, Conductor
COMMENCEMENT PROCESSION
(Interval for ushering)
*INVOCATION
Reverend Robert M. Selle Superintendent of the Lafayette District for the Methodist Church
*CHORAL AMEN
The Purdue Varsity Glee Club Albert P. Stewart, Conductor John W. Farley, Accompanist
MUSIC"America, America".
Premiere performance The Purdue Varsity Glee Club
ADDRESS TO THE CANDIDATES  Frederick L. Hovde, President of the University
MUSIC—Quartette from "Rigoletto"
THE AWARDING OF THE TECHNICAL INSTITUTE DIPLOMAS (In the First Division only) The President of the University
THE CONFERRING OF THE HONORARY DEGREES  The President of the University
MUSIC—"The Purdue Hymn"
THE CONFERRING OF THE DEGREES  The President of the University
THE AWARDING OF THE DIPLOMAS  Music—Excerpts from "Parsifal"
INDUCTION OF THE CLASS OF JUNE, 1952, INTO THE PURDUE ALUMNI ASSOCIATION
Walter W. Walb, President of the Purdue Alumni Association
*"HAIL PURDUE"
*BENEDICTION
Reverend Robert M. Selle

<sup>\*</sup> The audience standing

#### THE CONFERRING OF THE DEGREES

First Division—9:00 a.m., CST (10:00 a.m., DST)

#### THE BACCALAUREATE DEGREES

Bachelor of Science in Agricultural Engineering

Bachelor of Science in Engineering Law

Bachelor of Science in Aeronautical Engineering

Bachelor of Science in Air Transportation

Bachelor of Science in Chemical Engineering

Bachelor of Science in Metallurgical Engineering

Bachelor of Science in Civil Engineering

Bachelor of Science in Engineering Mechanics

Bachelor of Science in Electrical Engineering

Bachelor of Science in Mechanical Engineering

Second Division-1:30 p.m., CST (2:30 p.m., DST)

# THE ADVANCED AND PROFESSIONAL DEGREES

Doctor of Philosophy

Master of Science

Master of Science in Forestry

Master of Physical Education

Master of Science in Home Economics

Master of Science in Sociology

Master of Science in Education

Master of Science in Psychology

Master of Science in Chemical Engineering

Master of Science in Aeronautical Engineering

Master of Science in Civil Engineering

Master of Science in Electrical Engineering

Master of Science in Mechanical Engineering

Master of Science in Industrial Engineering

Master of Science in Engineering Mechanics

Master of Science in Engineering

Electrical Engineer

Civil Engineer

# THE BACCALAUREATE DEGREES

Bachelor of Science in Trade and Industrial Education

Bachelor of Physical Education

Bachelor of Science in Pharmacy

Bachelor of Science in Forestry

Bachelor of Science in Agriculture

Bachelor of Science in Home Economics

Bachelor of Science

# HONORARY DEGREES

HENRY CLAUDE BEAL for the degree of Doctor of Engineering, presented by Andrey Abraham Potter, Dean of the Schools of Engineering

JOHN WILLIAM BRANSON for the degree of Doctor of Laws, presented by William Leake Ayres, Dean of the School of Science

CLARENCE WESTON HANSELL for the degree of Doctor of Engineering, presented by Dressel Dewitt Ewing, Head of the School of Electrical Engineering

CLIFFORD MORRIS HARDIN for the degree of Doctor of Science, presented by Ernest Charles Young, Dean of the Graduate School

RALPH BISHOP HOWLAND for the degree of Doctor of Engineering, presented by Frank C. Hockema, Vice President and Executive Dean

GROVER CLEVELAND NEFF for the degree of Doctor of Engineering, presented by Ralph Benjamin Wiley, Head of the School of Civil Engineering and Engineering Mechanics

ROY CHESTER NEWTON for the degree of Doctor of Science, presented by Earl Thurston McBee, Head of the Department of Chemistry

GEORGE DEWEY SCARSETH for the degree of Doctor of Science, presented by Harry James Reed, Dean of the School of Agriculture

# CANDIDATES FOR DEGREES

# ADVANCED DEGREES

DOCTOR OF PHILOSOPHY	
Stanley Randolph Acker Scho	enectady, New York
An Experimental Investigation of the Limitations Placed Upon	Individual
Performance by Lateral Heterophoria in the Judgment of I	nter-point
Distance .	
William George Agnew	Oak Park, Illinois
The Effect of End-Zone Fuel Injection on Combustion in a Spark-Ign	•
Earl Logan Alexander, Jr.	West Lafayette
A New Method for Studying Channeling in a Gas Absorption Tower	
Wesley Breeden Argo	Lafayette
Reaction Kinetics and Heat Transfer in Packed Beds	Datayette
James Paul Avery	Lafayette
A Numerical Procedure for Stress Determination in Certain Plane St	
John D. Baker, Jr.	Mendon, Utah
An Evaluation of the Accuracy of Federal Agricultural Economic Fe	
	exington, Kentucky
Film Heat Transfer Coefficients for Refrigerants Boiling Inside of Ta	
John Wallace Baxter	West Lafayette
A biological study of the mint rust organism, Puccinia menthae Pe	
William Wallace Bay	Killeen, Texas
Some Fundamental Studies of Transmissible Gastroenteritis in Swine	
Robert Leonard Bogner	Belleville, Illinois
A Pharmacological Study of Lupinos albus	T) /#1
Willard Hallam Bonner, Jr.	Baytown, Texas
The Effect of Steric Strain on Chemical Reactions: I. Rates of R	
Dimethyl n-butylamine and Dimethyl-neo-pentylamine u	
iodides. II. Rates of solvolysis of ortho-substituted 2	-chloro-2-
phenylpropanes.	
	rmont, Pennsylvania
Vapor-Liquid Equilibria in the Binary Systems n Butane-Methanol a	nd
1 Butene-Methanol	
Doris Elinor Bunnell	West Lafayette
Some Studies of Prophylactic and Therapeutic Measures for the	
Control of Swine Brucellosis	
Irvin Watson Carpenter, Jr.	West Lafayette
Comparative morphology and anatomy of the seedling roots of four s	species
of the genus Quercus, as influenced by soil types	
John Alden Creager Highlan	nd Park, New Jersey
An Evaluation of a Product Multiple Correlation Technique for the	
Prediction of Academic Performance	
John Robert Cuthill	Buffalo, New York
Effect on Magnetic Properties of Vanadium Additions to 7% Silicon-	—Iron
	sse Pointe, Michigan
The Selection of Predictors of Job Success from an Analysis of	, ,
Personnel Data in an Industrial Plant	
Surendraray Chhabildas Dholakia	Bombay, India
Alkylation of 2-Methylnaphthalene with Longchain N-olefins with	<b>,</b> , <b>_</b>
Anhydrous Hydrofluoric Acid as a Catalyst	
	Berkeley, California
An Investigation of the Effect of Electrode Work Function and	201,, 0
Other Electrode Properties on Corona in Air	
John Joseph Dulin	Norman, Oklahoma
A Three-Phase Electrostatic Alternator	Tiorman, Ostanoma
	Dayton, Ohio
John Harold Eicher	Layton, Omo

Hugh C. Ferguson

The Isolation and Pharmacological Investigation of a Crystalline Glycoside

of Caulophyllum Thalictroides

Alpha Halo Acids and Esters with Alkali Nitrites

Detroit, Michigan

West Lafayette David Lester Finn Some Applications of Continued Fractions to Network Theory Lee Gurel Marion Personality factors in sensory discrimination George Franklin Harding Lafayette The Influence of Background Color on Retinal Color Zones Galesburg, Illinois Cyrus Clark Highlander An Isotopic Dilution Technique for the Analysis of the Products of Sulfonation of 2-Methyl Naphthalene Dunkirk Clyde Robert Hiles A Study of Alkyd-Silicone Coatings Indianapolis Ruth Frances Baker Hines An experimental investigation of perception and retention in a group of catatonic schizophrenics Orange, Connecticut Walter Seidel Kaghan A Study of the Suspension Polymerization of Styrene John Virgil Kline Fishkill, New York A Variable Spacing Perot-Fabry Interferometer Everett Earl Klontz Lafayette Production of Lattice Defects in Germanium by Electron Bombardment West Lafayette George Gregory Koerber A Study of Electrode Potentials in Liquid Hydrogen Fluoride Howard James Kutsch Lafayette The Response of Thermocouples Maurice Dean Lamoree West Lafayette On the Bosanquet-Linfoot Summability of the successively derived and conjugate Fourier series Irwin Philip Lazarus West Lafayette A System of Pre-determined Human Work Times Gerd Leston Jamaica, New York The Synthesis of Polynitro Acids and Their Derivatives Hugh B. Lofland, Jr. Rockwall, Texas Chemical Composition of Corn Oil as Affected by Genetic Factors Una Eileen Lynch West Lafayette The Preparation and Reactions of Unsaturated N-methylolamides Ray Charles Maize Montgomery; Alabama A Study of Two Methods of Teaching English Composition to Retarded College Freshmen Helen Lorena Marley New Castle The Significance of Variables Related to Storage Requirements of a Group of Indiana Families Glen Elvis McIntosh Fort Totten, North Dakota Thermal Diffusivity of Metals Tom S. Miya West Lafayette A Pharmacological Study of Certain Alkoxyalkylamines Lloyd Jean Money Houston, Texas The Frequency of Hunting of Synchronous Motors for Suddenly Applied and Removed Loads Clinton Leon Parker West Lafayette The Thermal Stabilization of Polyvinyl Chloride Norman Pearlman New York, New York Low Temperature Atomic Heat of Silicon, Germanium and Silver Stanley Morton Pier West Lafayette The Reactions of Dinitriles and Their Derivatives with Formaldehyde Henry Jackson Ramey, Jr. Huntington, West Virginia Radiant Heat Transfer from Superheated Steam Robert Alan Resnik New York, New York A Study of Some of the Physiological Factors Involved in the Production of Experimentally Induced Cataracts Edwin Neal Roth Monticello The Synthesis and Evaluation of New Insecticides Erwin Dee Russell Crawfordsville

Validation of the Asher-Frohman Test for Kinesthesis: An Exploratory Study

West Lafayette Joseph Leo Schanz Heat Transmission Through Corroded Superheater Tubes

Robert Wayne Schoeff West Lafavette

Economic Analysis of Forage Production, Harvesting, and Storage Bridgeport, Connecticut Clarence Ernest Schwartz

Flow Distribution Through Packed Beds

Peter Louis Sguros West Lafayette

The Oxidative Dissimilation of Glucose by Certain Achromobacter

Gerard C. Sinke Moline, Michigan

West Lafayette

West Lafayette

Heat Capacity of Organic Vapors

Stanley Kendrick Suddarth

Cost Minimization in the Primary Transport of Forest Products

Brooklyn, New York Bernard Taub

The Reaction of Alkyl Halides with Silver Nitrite

Vancouver, British Columbia William John Wallace

I. A Study of the Binary Systems Aluminum Bromide-Aromatic Hydrocarbons II. A Study of the Ternary Systems Aluminum Bromide-Hydrogen Bromide-Aromatic Hydrocarbons III. A Study of the Binary Systems

Aluminum Halides-Alkyl Halides Willard Forest Williams Bend, Oregon

Short-Run Expectations: An Analysis of Price and Production Expectations and Plans of Southwestern Indiana Dairy Farmers

Lawrence Albert Wilson, Jr. Dyes from Sym-bis (5-amino-triazoyl) alkanes

West Lafayette Saul Zalik

Some Responses of Wild Garlic and of Winter Wheat to Selective Herbicides

Leslie Milton Zoss Lockport, New York

A Study of the Hydrogen and Water and Oxygen and Water Systems at Various Pressures and Temperatures

#### MASTER OF SCIENCE

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Julian Hutchinson Atkinson Valdosta, Georgia

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Mark Trevor Atwood San Francisco, California Nitration Studies. Factors Influencing Product Ratios in Vapor Phase Processes

El-Sayed Moh. M. Azzouz Dokki, Cairo, Egypt Seymour Bakerman Brooklyn, New York

Studies in Molecular Structure

Lloyd William Baldwin Unadilla, New York

A Regional Case Study of Retired Personnel

Daniel Joseph Barry Burlington, Vermont

An Investigation of the Existence of a Boron Subchloride

William Martin Becker Roosevelt, New Jersey

Semiconducting Films

Carman Arthur Bliss Calgary, Alberta, Canada

The Use of Enzymes in Connection with Paper Partition Chromatography for the Identification of Glycosides

Martin Alexander Blum

New York, New York

Cost of Operating Selected Indiana Livestock Markets

Perce W. Bolmer Mason, Ohio

Polarography in Methanol-Benzene Solutions

Harold Edward Brown Fort Wayne

Design and Construction of an Instrument for Measurement of Cloud Chamber Tracks

Douglas Bernard Bruss Milwaukee, Wisconsin

Polarography in Glycerol at Elevated Temperatures

Jess Edward Bumgardner West Lafayette

The Effect of Thyroid Activity on the Thiamin Requirement in the Rat

Robert Cecil Buschert Lafayette

Crystallization of Butyl Rubber

LaSalle, Illinois Carl Robert Carlson Design and Construction of Sequence Timing Equipment for Use with the Purdue Synchrontron Cloud Chamber Lyons, New York John F. Carroll The Reaction of 2-nitro-1-butene with Nitroethane Butte, Montana Donald Lee Christman Acylation Studies Involving Fluorinated Acid Anhydrides and Chlorides Marstellar, Pennsylvania Harry Alfred Clawson A Study of the Separation of Sulfated Hydroxy Amino Acids Phillip Gray Cobb Eupdra, Mississippi Investigation of (deuteron, 2 proton) reactions Dominic J. Colasito Allen Park, Michigan Chemical changes produced by submerged cultures of Bacillus circulans Q-19 in synthetic and complex media Harry Edward Conrad New Orleans, Louisiana Fractionation and Composition of Corn Cob Hemicellulose B Girard, Ohio John Michael Criscione A Study of Germanium Refractories West Lafayette George Clifton Darby, Jr. Decay of Argon 41 Ajit Kumar Datta Calcutta, West Bengal, India Studies in the Synthesis of Methionic Acid from Acetylene and Sulfuric Acid Mary Eileen Denison Mattoon, Illinois An Analysis of Adrenal Activity with Emphasis on the Eosinophil Test Mt. Comfort Norris Wayne Dunham A Pharmacological Study of a Series of Basic Esters of Mono-and Dialkylmalonic Acids Edward Baker Dunning Jackson Heights, New York Heterogeneous Bimolecular Reduction. Co-reduction of Acetophenone with Substituted Pyridines and Quinolines Kenneth Albert Elliott West Lafayette Organisms Antagonistic to Verti-cillium albo-atrum R. & B. Roy Chapman Elrod Remington Effect of Type and Level of Antibiotic upon the Growth Rate and Feed Efficiency of Swine Kermit Colt Fraser Lyndonville, New York West Lafayette Josefina Baloy Fugoso The Magnesium Salt of Methionic Acid and Its Pharmaceutical Preparations Robert Arnold Gambill West Lafayette William Howard Gardner Volant, Pennsylvania Reaction of Ketene Divinylacetal with Various Nitro-compounds Nazareth, Pennsylvania Albert Edwin Hellick Gaumer Comparison of the Oxygen Dissociation Curve of the Blood of an Aquatic and a Terrestrial Turtle Paul William Gerding Fort Wayne The Determination of the Relative Efficiencies of Suspending Agents Miami, Florida Morton Ernest Getz Effects of Lysozyme on Fungi Pathogenic to Man and Lower Animals Raymond Howard Gillespie Albion, Michigan Charles S. Goetzinger, Jr. West Lafayette An Analysis of the Validity of Reasoning and Evidence of Four Major Foreign Policy Speeches—1950-51 West Lafayette Katherine Ozburn Gould Gordon Jackson Graham South Bend Post Graduate Adjustments of Purdue Agricultural Students Weddie Howard Hassler Memphis, Tennessee A Water Soluble Suppository Base West Lafayette Clayton Edward Hathaway, Jr. The Preparation of a Fluorine—containing Diazoketones

The Analytical Determination of Some Components in Corn Sirup

Production of Disease-Free Planting Stock of Mentha piperita, L.

John LeFever Hickson

Eugene Bryson Himelick

West Lafayette

Summitville

West Lafayette William Andrew Hoffman, Jr. Analytical Applications of Vanadium John Steve Holik Columbia, Missouri Some factors associated with growth and decline of rural towns Edgar Curtis Hornback Richland The Effect of Aureomycin on the Growth and Development of Beef Calves Wilfred Britton Howsmon, Jr. Dayton, Ohio Iron Complexes in Glacial Acetic Acid Kenneth Earl Hutton Chicago, Illinois James D. Idol, Jr. Harrisonville, Missouri The Synthesis of Certain Ring-Substituted Derivatives of 1, 2-Bis (Trifluoromethyl) Benzene Huntington, New York Ira Jacobs Transverse Motion of an Electron in a Constant Wave Speed Section of a Linear Accelerator Everend Leland Jacobson Logan, Utah Some refractory compounds of silicon and germanium Emory A. James, Jr. Indianapolis The Synthesis of p-Iodobenzenesulfonyl Chloride Labeled with Sulfur-35 Christopher Leo Jordan Lafayette Marcus Wayne Jordin Idaho Falls, Idaho Khellin: Its Antispasmodic Action and Biological Assay William F. Kellie Southport Objective Color Grading of Cannery Tomatoes and Tomato Products Cleburne, Texas Charles Ervin Kemp Donald Albert King Greensburg Fort Wayne Lois Ruth Breimeier Koenig Electrophoretic Studies of Blood Proteins in Rheumatoid Arthritis of Swine Bernard Louis Korty Lafayette The Effect of Long Continued Treatments on the Physical Behavior of Some Indiana Soils John Robert Kuiken West Lafayette Histological Evidence of a Hyalin-Fibrin Complex in the Bovine Mammary Gland Park Ridge, Illinois James Bernard Lear A Spectrophotometric Study of the Nickel-mercaptopropionic Acid System Brooklyn, New York Irving Lillien Friedel-Crafts Reactions of Ethanesulfonyl Chloride Hans Low Quincy, Massachusetts Synthesis of 2-(Trifluoromethyl)-1-propanol, 2-(Trifluoromethyl) propanal, 2-(Trifluoromethyl) propanoic acid, and 2-(Trifluoromethyl) butanoic acid Alliance, Ohio Robert James Lundegard Gordon Edward Mallett Lafayette The isolation and analysis of the flagella and slime material of Bacillus Mary Virginia Grigsby Mallett Lafayette Metabolic Changes During Streptomycin Production Boyd Robert Mangus Delphi Richmond Beckett McQuistan West Lafayette The Determination of the Resistance-Temperature Characteristics of Bulk Semiconductors by the Pulse Heating Method Donald Eugene Mentzer Rocky River, Ohio A Study of Certain Colorimetric Procedures Darrel David Meyer West Lafayette The Aldol Condensation of Perfluoro-butyraldebyde and Acetone Ronald Richard Miller Southgate, California New Complexes of Ruthenium with 2,2'-Bipyridine Brazil Russell Eugene Mumford A Study of Wood Duck Populations on Indiana Streams Mary Frances Muskoff Jacksonville, Florida West Lafayette Joseph Anthony Navarro Hubbardston, Michigan Carl Herman Noller Chromogen and Chromium Oxide for Measuring Pasture Utilization John Richard O'Malley Huntington The detection of infra-red radiation from hot glass particles

Jeanne Young Orr

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Edwin Burnell Oyer

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A Spectrometric Study of certain organic color-forming reagents in the

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Heinrich Eberhard Ruprecht

Ueber die Existenz und Struktur ebener stationaerer Potentialstroemungen

eines adiabatisch kompressiblen Gases um eine Kontur

James Kevin Scanlon Chicago, Illinois

A Polarographic Study Using a Dropping Amalgam Electrode

Robert Joseph Schlembach Defiance, Ohio

A Study of the Effects of Several Autonomic Drugs on the Motility of Isolated Intestinal Segments

Yolanda Florendo Sebastian Zamboanga City, P. I.

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Edward Simon

Bradley Beach, New Jersey

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Dale Metz Smith West Lafayette

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James Eldon Smith West Lafayette

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James Maurice Spain
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Richard Lewis Stafford Scotia, New York

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Richard Donald Stuart

Bloomington

John Allen Tischendorf

Irfan Ullah

Norval Ellsworth Webb, Jr.

Lincoln City

Karachi, Pakistan

West Lafayette

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Ernest Wolf

Jackson Heights, New York

The reaction of pseudonitroles with bases

Jack Preston Wright
The Iron-2,2', 2" Terpyridine System

West Lafayette

MASTER OF SCIENCE IN FORESTRY

Raymond Hugo Brendemuehl

Ernest Wesley McCoy

West Lafayette

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# MASTER OF PHYSICAL EDUCATION

Phyllis Susan Calhoun West Lafayette John Davis, Jr. Peru Murray Ward Hubley Huntington

The Techniques of Teaching Competitive Diving

Thomas Patrick Hughes West Lafayette Walter Vincent Romanowski Chicago, Illinois

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#### MASTER OF SCIENCE IN HOME ECONOMICS

Mary Akers Kramer Erie, Pennsylvania

Gelation of Pectin in Uncooked Jam from Frozen Fruit

Helen Bowditch Leonard West Lafayette

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#### MASTER OF SCIENCE IN SOCIOLOGY

Sophie Krassin Freiser West Lafayette

Valuations of American Social Class Analysts

Roger Harvey Hawk New Castle, Pennsylvania

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Harold Starr Bayonne, New Jersey

A Study of Some Sociological and Psychological Dynamics of Prejudice in a

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Carl Ernest Waisanen Aura, Michigan

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# MASTER OF SCIENCE IN EDUCATION

Calvin Francis Beaman Rensselaer Mary Stuart Beil Jonesboro, Tennessee Ralph Pillsbury Cochran, Jr. West Lafayette West Lafayette Degamberrao Hanumantrao Deshpande Robert Willis Gehring Fort Wayne Francis Ervin McCracken West Lafayette Eleanor Grace Palmer West Lafayette Norman Tanksley Brook Herbert Werner Treichel Sheboygan, Wisconsin Allan Richard Weinheimer Lockport, New York James Earl Wilson Indianapolis

#### MASTER OF SCIENCE IN PSYCHOLOGY

Audrey F. Adrian New York, New York

Analysis of Intercorrelation of Measures of Finger Dexterity

Lafayette Larry A. Doty

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David Henry Gliessman Hinsdale, Illinois

Personality Characteristics of Nursery School Children as Related to Types of Play

Burlington, Iowa Walter Frank Huppenbauer

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Donald Richard Jones

Harvey, Illinois

An analysis of job knowledge components of metal working jobs

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Rochester, New York Irwin A. Miller

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Charles Dare Scheips

St. Louis, Missouri

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Philip Redmond Smith

West Lafayette.

A scale analysis of an attitude questionnaire

#### MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Thomas Morton Darby

Converse

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David Edmond Larkin

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Roger A. Riehl

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### MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

Charles Gilpin Allen

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Robert John Kell

Hampton, Virginia

Rolling Effectiveness and Aileron Reversal of Low-Aspect-Ratio Unswept

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Cherryvale, Kansas

Joaquin Antonio Saavedra

Midlothian, Illinois

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Alfred Yeiko Aragaki

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Gerald Myles Batchelder

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Strength and Dynamic Properties of Concrete

John Alan Havers

Regina, Saskatchewan

Annotated Bibliography and Exploratory Tests on Rubber-Asphalt

Jagdish Narain

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John Aito Pihlainen

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Outline of Research for Field Studies of Piles in Permafrost

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Donald Norton Anderson, Jr.

Glencoe, Illinois

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James Douglas Cloud

West Lafayette

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Haifa, Israel Indianapolis

Alexander Gordon Richard Henry Groene Frank Test Hiatt Walter Leitner

Indianapolis Istanbul, Turkey

Mamerto G. Nepomuceno

Angeles, Pampang, P. I. Lafayette

Claud Carrol Pinson Karl Schurr

Minneapolis, Minnesota

Stabilization of Variable Carrier Frequency Servomechanisms

West Lafayette

Lawrence Allen Tate

An Electronic Simulator for an Hydraulic Servomechanism Curtis Brooks Thompson

Memphis, Tennessee

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Clinton, Oklahoma

Thomas Orval Wear

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Milnor, North Dakota Paul Alfred Bennett

Effects of Internal Coolants on Combustion

Amos Millard Einerson

Lafayette

Air Flow Through Porous Materials

Richard Joseph Grosh Fort Wayne Measurement of Thermal Conductivity of Metals at Low Temperatures

Berwyn, Illinois Gerald Frank Maruska

Design and Testing of a Resonant Fatigue Machine for Reversed Axial Loading

West Lafayette

William C. McMillan Ralph Elmer Mottin Ferguson, Missouri

Design of a Shear Machine and Mechanics of Shear Failure

Detroit, Michigan James Bernard Retzloff

A Study of Mixture Distribution in an Internal Combustion Engine by

Means of Oxidized Exhaust Gas Analysis

Delbert Earl Robison West Lafayette

Experimental Performance and Heat Transfer of a Rocket Motor Operating on

WFNA-JP3 at 700 psia Chamber Pressure and 500-lb Thrust

John Marion Simonsen Salt Lake City, Utah

Determination of Aerodynamic Hysteresis

Philip James Swanson

West Lafayette

Classified—Ordnance Project

Brookings, South Dakota John Bailey Taylor, Jr.

Factors Affecting Performance of Dual-Fuel Spark-Ignition Engines

West Lafayette Bhongs Varasundharosoth

Relative Effects of Inert Gases in Detonation Control

#### MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Antonio Augusto Abreu Caminada West Lafayette

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Richard Henry Doolittle Hudson, New York

The effect of switch handle shape upon the time required for operation

Herbert Thayer Fichman New Orleans, Louisiana

The Effect of Diameter on the Effort Required to Rotate Handwheels Used as Cranks

Richard Dickinson Frick Chicago, Illinois

The Evaluation and Improvement of a Procedure for the Analysis of a Production Control System in a Job Lot Industry Making Sponge Rubber Products

James Ottis House, Jr. Jefferson, Tennessee

The effect of the diameter of handwheels, used as wheels, upon the time required for adjustment

Elkhart John Floyd Lipscomb

The Optimum Number of Teeth for Light Duty Plain Milling Cutters

Joao Botelho Machado Rio de Janeiro, Brazil

Effect of size of handwheels on effort required for rotation

James Larrimore McKenney Chicago, Illinois

A Statistical Analysis of Inspection Gages

Ellsworth Mills Ostrom, Jr. Corpus Christi, Texas

Development of a Method for the Functional Analysis of Human Activity

Harry Otto Rohde New York, New York

A Comparison of Rating Methods for Time Study

Horacio Rubens de Mello e Souza Washington, D. C.

A Classification of Materials Handling Information to Facilitate

Equipment Selection

Paulo V. D. B. Viana Washington, D. C.

The Effect of Handwheel Sizes on Speed of Turning

Roland Henry Watson Birmingham, Michigan

Analysis of the factors affecting time-study grievances

James Charles Woodling Akron, Ohio

Die Clearance as Affecting the Dynamic Properties of Metals Under Blanking Operations

#### MASTER OF SCIENCE IN ENGINEERING MECHANICS

Robert Alden Douglas

Indianapolis

The Design of a Hydraulic Test Apparatus for Metal Sheet

### MASTER OF SCIENCE IN ENGINEERING

Frederick Henry Buelow

Drake, North Dakota

Thermal Characteristics of Floors in Contact with the Ground

West Lafayette

Robert Preston Harbage

Power and Torque Distribution in a Self-Propelled Harvester

Boonton, New Jersey

David Higgins, IV Raoul Jean Quantz

Lafayette

Kenneth Cruikshank Van Auken

Warner, New Hampshire

### ELECTRICAL ENGINEER

M. B. Hudson

Zionsville

Control Circuits for Large Motors in Pipe Line Service

## CHEMICAL ENGINEER

Ulysses B. Yeager Fuel Technology Huntington, West Virginia

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The following list contains the names of those graduates whose degrees are awarded with distinction. Highest Distinction is indicated by an asterisk.

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Herman Carl Snyder

#### AERONAUTICAL ENGINEERING

\*Homer Garth Morgan Robert Dee Sherrill \* John Edward Shuter Jay Wesley Stanwood

#### AIR TRANSPORTATION

\*Vernon Harcourt Brewster, Jr.

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#### CHEMICAL ENGINEERING

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\*Adolph George Altschaeffl Thomas Lee Anderson Alfred Korn \*David Burton Olin John Patrick Ryan Terence Meehan Tracy Eugene Alden Watkins Thomas Lee Willhoff

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Joseph John Petrovich Peerson

# ELECTRICAL ENGINEERING

\*Robert Cook Bales
Ellis Orion Bowers
George Angel Carnegis
\*Ernest Frederick Close
William Reid Dufendach
Sheldon Gruber

\*Albert John Jicha

Sigurd Kristiansen, Jr.
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Theodore Anthony Savo
\*William Ellsworth Schaaf, Jr.
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William Mark Woodhull
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#### MECHANICAL ENGINEERING

Ali Suphi Argon

\*Gerald Allen Cohen
Raymond Morris Cole
John Robert Craun
Hobart Aley Cress II
John Milton Kistler
Irvin Raymond Kobsa

\*Ray Edward Koskie
Ray Vincent Matthews
James Walter Mayer

\*Robert Clayton Mellin

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Harry Lewis Newman
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#### TRADE AND INDUSTRIAL EDUCATION

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#### **PHARMACY**

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\*George Junior Brewer
\*Walter George Brueggemann

Carol Louise Hoffmann William Arnold Meinberg Arnold Eugene Nicholson

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\*Kenton Andrew Gast

\*Roger Philip Henley Hervey Maurice Kellogg

\*Donald Gene Maines Robert Leon McCarty \*Lyle LaMar Mowrey Paul Joseph Reynolds

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\*Mary Elizabeth Anderson

\*William Gibson Brown William David Buffington Lloyd Kent Collins Shirley Deay Barbara Anne Dye Jack Edwin Garrett Janet Eleanor Hanson

\* Jackson Elwood Harrar

\*Donald C. King

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Wabash

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Rochester, New York
Rochester, New York
Elmhurst, Illinois
Chicago, Illinois
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Robert Ormond Riffle
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Leo Ted Sugar
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Melrose Park, Illinois
Elkhart
Lafayette
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The President of the United States has commissioned the following students as Second Lieutenants in the Officers' Reserve Corps, United States Army:

Thomas Lee Anderson, Corps of Engineers James Henry Bamping, Transportation Corps Joseph J. Baughman, Transportation Corps Charles William Beall, Transportation Corps Arthur Allen Beard, Transportation Corps Henry Edward Botts, Field Artillery Fred Henry Bowen, Jr., Corps of Engineers \*Richard Keith Bowers, Signal Corps \*George Junior Brewer, Medical Service Corps William Gibson Brown, Field Artillery Joe Louis Brumbaugh, Signal Corps \*Chestine Harold Butler, Signal Corps Earl Lee Campbell, Transportation Corps Robert Charles Carter, Transportation Corps \*Paul Chester Chasteen, Signal Corps \*Clyde Donald Cochran, Corps of Engineers \*John Robert Craun, Ordnance Corps Robert Albert DeRegnaucourt, Corps of Engineers Richard Fred Dickhaut, Transportation Corps Richard Anthony Dimaria, Transportation Corps William Elvin Dismore, Jr., Chemical Corps Paul David Douglas, Transportation Corps Thomas Lee Eversman, Transportation Corps Donald Conrad Feix, Transportation Corps Robert Joseph Ferrari, Signal Corps Lewis Alan Fields, Chemical Corps Robert Eugene Freeman, Field Artillery Philip Andrew George, Corps of Engineers John Irving Gifford, Transportation Corps George W. Godfrey, Corps of Engineers Howard Arthur Haberkost, Transportation Corps John Elemual Hand, Chemical Corps Robert Leroy Harper, Corps of Engineers Alphonse Gilbert Hartman, Jr., Field Artillery Richard Elton Hawk, Corps of Engineers Lewis Arol Heffner, Transportation Corps Richard N. Hiernaux, Jr., Corps of Engineers Paul Frederick Hughes, Transportation Corps Casimir Alex Jaworski, Transportation Corps Clarence James Kaiser, Field Artillery Donald Francis Kasperan, Transportation Corps Richard Howard Kay, Transportation Corps Stanley Scott Kershaw, Jr., Signal Corps \*Louis Eldon Kincannon, Field Artillery \*Donald C. King, Field Artillery Joseph Roland Kirk, Field Artillery Floyd Auzro Kline, Corps of Engineers John McAdams Kramer, Transportation Corps Russell Eugene Kruetzman, Transportation Corps Herbert Kulwin, Transportation Corps David Daily LaBolt, Transportation Corps \*Thomas Culver Larson, Corps of Engineers David Harryman Lively, Chemical Corps Eugene James Magri, Ordnance Corps

<sup>\*</sup> Distinguished Military Graduate

Harold Leroy Marks, Jr., Medical Service Corps Robert Keith Marlowe, Signal Corps Thomas George Marshall, Jr., Signal Corps John Thomas Martin, Signal Corps Warren Lee Mauzy, Chemical Corps \* James Walter Mayer, Ordnance Corps Robert Leon McCarty, Transportation Corps Richard Arthur Mierke, Ordnance Corps Theodore Fisher Miller, Corps of Engineers Stephen Omer Mitchell, Transportation Corps A. Gordon Moore, Medical Service Corps \*Robert Eugene Moss, Transportation Corps Jack Crossley Mustermann, Field Artillery Anthony Phillip Myer, Corps of Engineers Alan Edgar Myers, Transportation Corps \* Alfred Louis Neuhoff, Corps of Engineers Harry Leslie Newell, Transportation Corps John Dexter Nilsson, Chemical Corps Jack Dorner Noyes, Transportation Corps William Kennett Oyler, Jr., Transportation Corps Robert Eugene Peterson, Field Artillery \*Philip Carrol Pitts, Transportation Corps \*Charles Richard Posey, Medical Service Corps Richard Joseph Ripp, Transportation Corps Richard Henry Rosner, Transportation Corps Alvin Paul Rush, Ordnance Corps Robert Gayle Scharf, Transportation Corps Robert Gillmore Schmidt, Ordnance Corps John Albert Sester, Transportation Corps Phillip Dean Shafer, Field Artillery Gerard Shirar, Transportation Corps Daniel Ray Shoop, Corps of Engineers \*Merrill Joseph Simon, Signal Corps Donald Forber Simons, Corps of Engineers Howard Paul Smith, Transportation Corps Stanley Lee Spaulding, Chemical Corps James Larkin Stallings, Transportation Corps \*Richard Martin Stoeppelwerth, Corps of Engineers John Howard Storm, Ordnance Corps Conrad Devon Strietelmeier, Transportation Corps Howard Kerr Thompson, Corps of Engineers \*\*Stephen Leslie Vantrease, Transportation Corps Charles Reifers Vaughan, Finance Corps \*Robert Lee Warren, Transportation Corps Eugene Alden Watkins, Corps of Engineers \*Richard Speeker Wells, Field Artillery \*William Mark Woodhull, Signal Corps Robert Leon York, Signal Corps Vance Owen York, Transportation Corps

Charles Edward Zidek, Ordnance Corps

<sup>\*</sup>Distinguished Military Graduate

The President of the United States has authorized the appointment of the following Distinguished Military Graduates as Second Lieutenants in the Regular Army effective 15 June 1952:

Richard Keith Bowers Thomas Gretzinger Norman Collier Saunders

Donald Henry Smith Richard Martin Stoeppelwerth Stephen Leslie Vantrease

The President of the United States has commissioned the following students as Second Lieutenants in the United States Air Force Reserve:

Robert John Benzing Philip James Bonomo Charles Stanley Bullen Samuel Franklin Burton Salvatore John Calabrese Vincent Nicholas Capasso, Jr. Donald Joseph Carr Richard Martin Carroll Kenneth Eugene Clark Nicholas John Clones Thomas Frank Corbet Voyd Emery Daine Coy James Deich Wallace James Dillingham lames Howard Duke Samuel Edward Eck Richard Eugene Edgington Thomas Myron Elliott John Kirktown Emery Jerome Francis Falta Ira Donald Farrington, Jr. Charles Ray Ferguson Joseph Thomas Flood Andrew Gillespie Forrest James Nelson Getty Rexford Howard Gordon, Jr. Jerome Caldwell Gordy William Raymond Greenwood Sheldon Gruber Lloyd Eugene Hackman Edwin Leroy Hardesty, Jr. William Bruce Hartman William Nels Hatlem David Judson Haykin, Jr. William John Heitz, Jr. Philip Brian Hemmig Forrest Ivan Hurst Charles Ross Jennings Harry Wayne Johnson Lynn Danridge Johnson Jack Harold Kalish John Milton Kistler Irvin Raymond Kobsa Paul Joseph Kruggel

Lawton Harry Link

Richard William Maffett Grant Leroy Magart Robert Matthew Mastrovitch Thomas Osamu Matsuura Ronald Edwin Matteson Joe Hankley McCarty Robert McFedries, Jr. Richard Donald McLure David Earl McNay David Lawrence Millikan Don Brant Milliken Donald Earl Mortensen William Franklin Moses, Ir. Donald Francis Murphy William Guthrie Musselman George Fred Naumann, Jr. David Thomas Ormesher Richmond Walker Paul, Jr. Richard Gustave Pearson Andrew Francis Petrovich Peerson James Shanklin Pinkerton David Burford Puryear James Milton Sanford Rich Richard Weber Rietz William Joseph Sauber Robert George Schilling William Ray Schlegel Robert Dee Sherrill John Edward Shuter Richard Edward Spaid Roger Lynn Spencer Robert Hoffman Stansbury John Henry Steinberger Jack Albert Talcott John Farley Thorne, Jr. William Claude Tuesburg Paul Edward Wagner Ronald James Wagner Clarence Marvin Wayman Thomas Bruno Weber Robert Arthur Wheasler James Arthur Wiese Dhalmas Otto Wilmore William James Wood Warren Hamilton Wright Paul John Zvonar

The President of the United States has commissioned the following students as Ensigns in the United States Navy:

Vernon Harcourt Brewster, Jr.
Philip Henry Edmunds
Willis Graham Haymaker, Jr.
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The President of the United States has commissioned the following students as Second Lieutenants in the United States Marine Corps:

James Allan Campbell, Jr.

Robert Warren Jones

The President of the United States has commissioned the following students as Ensigns in the United States Naval Reserve:

David Andersen Robert Luther Beetem Louis Todd Bower William Arnold Clingenpeel Ronald Gabel Gaylord John Gano George Frederick Haase Kenneth Allan Jordan James Leonard Lane

Scott Lee Lasley
Richard Philip Mathison
William Glos Notz
Frank Wilson Ockerby
Kenton Nile Riggs
Richard Eugene Seigel
Paul Webster Vinson
Charles Edward Walton
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The President of the United States has commissioned the following students as Second Lieutenants in the United States Marine Corps Reserve:

Walter Kenneth Fialkowski

Douglas Allan Odell

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1952

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### THE HISTORY OF CAPS AND GOWNS

Academic costume of today has a history of nearly eight centuries. In medieval Europe, all townsmen—men and women—wore long flowing robes or gowns. The materials and colors varied greatly, according to the wealth and rank of the individual, and were governed by royal decree. Gradually there developed distinctive gowns for the various professions, trades, and guilds. They survive today in the gowns of religious orders and the judiciary, and in academic costume. More colorful survivals are found in Great Britain, especially in great ceremonies of state.

Students in the medieval universities of Paris, Bologna, Oxford, and Cambridge organized themselves into guilds, just as did other groups. Gradually their costume became distinctive for Bachelors (apprentices) of Arts, Masters (teachers), and Doctors (teachers, again, but who had completed post-graduate studies.) The distinction appeared mostly in the hood. The hood derives from the cloak, which in medieval times everybody wore over the gown, as we wear an overcoat. Attached to the cloak, at the back of the neck, was a kind of cowl or hood which hung down, or could be pulled over the head for warmth. After a time, this cowl or hood became a separate article, worn over the head and hanging far down the wearer's back. When caps and hats came into fashion in the fifteenth century, the hoods became merely ornamental, draped over the shoulders and down the back.

The academic cap was a later development. It was first conferred as a symbol of the M.A. degree. Some caps were stiff, some soft, some square, some round, with a tuft in the center. The tassel of today is an elaboration of the tuft. Round caps are still used at some institutions. The "mortar board" style comes to us from Oxford.

In Europe there is still great variation in the colors and shape of the three articles of academic costume, but in our country usage has long been standardized by the Intercollegiate Code. Taking the Oxford costume as a starting-point, an American system has been worked out. The Bachelor's gown has long, pointed sleeves; the Master's gown has closed sleeves with a slit for the arm; the Doctor's gown has round, open sleeves with three bars of velvet on each, and velvet facing. Like the velvet, the gold tassel on the cap is reserved to Doctors and to Presidents.

Most distinctive are the hoods, one for each of the three degrees. The Bachelor's hood is frequently not used in this country. All hoods are made of the same material as the gown and are lined with silk in the official colors of the institution. Thus, the Purdue hood is lined in black with an old gold chevron. The trim is of velvet, three inches wide for the Master; five inches for the Doctor. This trim is frequently colored; white for a degree in Arts, gold yellow for Science, blue for Philosophy, etc.

The gowns of old gold color are distinctive to Purdue. They are furnished by the University to those faculty members who have been chosen as Marshals, and are worn only at Commencement activities. Thus Purdue contributes one more chapter to the long history of academic costume.





